

CONTENTS

<i>Obituary</i>	v
X-Ray structure of the (2,2,6,6-tetramethylpiperidin-1-oxyl-4-yl) 2,3,4,6-tetra- <i>O</i> -acetyl- β -D-glucopyranoside F. Cinget, D. Gagnaire, A. Grand, and P. J. A. Vottero (Grenoble, France)	1
Kristall- und Molekülstruktur von D-Arabinitol J. Kopf, M. Morf, B. Zimmer (Hamburg, Germany) and P. Köll (Oldenburg, Germany)	9
E.i. mass spectrometry of per- <i>O</i> -benzylated 1,3-, 1,2-, and 1,6-anhydropyranoses X. Wang, F. Kong, Z. Xu, Y. Guan, and Q. Chen (Beijing, China)	15
Conformational analysis of sialyloligosaccharides S. Sabesan (Wilmington, DE, U.S.A.), K. Bock (Valby, Denmark), and J. C. Paulson (La Jolla, CA, U.S.A.)	27
Crystal and molecular structures of D-glycero-D-manno-heptitol (α -sedoheptitol, volemitol) and D-glycero-D-glucos-heptitol (β -sedoheptitol) P. Köll, H. Komander (Oldenburg, Germany), S. J. Angyal (Kensington, N.S.W., Australia), M. Morf, B. Zimmer, and J. Kopf (Hamburg, Germany)	55
Determination of the absolute configuration of monosaccharides using (+) or (–) 2- <i>tert</i> -butyl-2-methyl-1,3-benzodioxole-4-carboxylic acid and high-resolution ¹ H-n.m.r. spectroscopy Y. Nishida, M. Kumagai, A. Kamiyama, H. Ohru, and H. Meguro (Sendai, Japan)	63
Selective chlorination of pentitols M. Benazza, D. Beaupère, R. Uzan, and G. Demailly (Amiens, France)	75
The reduction of benzylidene derivatives of pentose diethyl dithioacetals with lithium aluminium hydride-aluminium trichloride S. P. Rao and T. B. Grindley (Halifax, N.S., Canada)	83
An improved synthesis of trehalose 6-mono- and 6,6'-di-corynomycolates and related esters A. K. Datta, K. Takayama, M. A. Nashed and L. Anderson (Madison, WI, U.S.A.)	95
Synthesis of linkage-specific sialoside substrates for colorimetric assay of neuraminidases H. Kodama, L. G. Baum, and J. C. Paulson (Los Angeles, CA, U.S.A.)	111
Regioselective synthesis of C-nucleosides by 1,3-dipolar cycloaddition of aryl nitrile oxides to 5,6-dideoxy-1,2- <i>O</i> -isopropylidene- α -D-xylo-hex-5-enofuranose U. A. R. Al-Timari and L. Fišera (Bratislava, Czechoslovakia)	121
Synthesis of 4,8-anhydro-2,3-dideoxy-D-galacto- and -D-glucos-non-3-enose dimethyl acetal and their use as new probes for determining by ¹ H-n.m.r. spectroscopy the steric course of protonation by glycoside hydrolases H. Fritz, J. Lehmann, M. Schmidt-Schuchardt, and W. Weiser (Freiburg, Germany)	129
Thermal synthesis and pyrolysis of a xylan G. R. Ponder and G. N. Richards (Missoula, MT, U.S.A.)	143

Cycloheptaamylose as a model for starch in the pyrolysis of polysaccharides T. L. Lowary and G. N. Richards (Missoula, MT, U.S.A.)	157
Activation of a limulus coagulation factor G by (1→3)- β -D-glucans S. Tanaka, J. Aketagawa, S. Takahashi, Y. Shibata (Tokyo, Japan), Y. Tsumuraya, and Y. Hashimoto (Urawa, Japan)	167
Location and quantitation of the sites of O-acetylation on the capsular polysaccharide from <i>Streptococcus pneumoniae</i> type 9V by ¹ H-n.m.r. spectroscopy: comparison with type 9A T. J. Rutherford, C. Jones (Potters Bar, Gt. Britain), D. B. Davies (London, Gt. Britain), and A. C. Elliott (Bracknell, Gt. Britain)	175
Unusual structure of the exopolysaccharide of <i>Rhizobium leguminosarum</i> bv. <i>viciae</i> strain 248 H. C. J. Canter Cremers, K. Stevens, B. J. J. Lugtenberg, C. A. Wijffelman (Leiden, The Netherlands), M. Batley, J. W. Redmond (Macquarie, N.S.W., Australia), M. W. Breedveld, and L. P. T. M. Zevenhuizen (Wageningen, The Netherlands)	185
Structural studies of amyloglucan and a soluble glucan produced from starch by <i>Streptococcus sanguis</i> 1 MC 204 M. M. Coogan, R. L. Jones, K. L. Manchester (Johannesburg, South Africa), and H. W. Viljoen (Pretoria, South Africa)	201
Structural characterization of two oligosaccharide fragments formed by the selective cleavage of rhamnogalacturonan II: evidence for the anomeric configuration and attachment sites of apiose and 3-deoxy-2-heptulosaric acid V. Puvanesarajah, A. G. Darvill, and P. Albersheim (Athens, GA, U.S.A.)	211
<i>Notes</i>	
Synthesis and nuclear magnetic resonance spectra of the first 2,5-disubstituted 1,3,4-oxadiazoles from disaccharides M. A. M. Alho, M. L. Fascio, N. B. D'Accorso, and I. M. E. Thiel (Buenos Aires, Argentina)	223
Synthesis of some <i>myo</i> -inositol nitrates M. Brufani, M. C. Cesta, L. Donnarumma, L. Filocamo, G. Gostoli, S. Lappa (Rome, Italy), E. Ferrari, and P. G. Pagella (Milan, Italy)	229
New syntheses of isopropylidene derivatives of D-gluco-, D-xylo-, and D-ribo-furanose by hydrolysis of related glycofuranosylamines D. F. Ewing, R. W. Humble, G. Mackenzie, A. Raynor (Hull, Gt. Britain), and G. Shaw (Bradford, Gt. Britain)	233
Monomers from sucrose N. D. Sachinvala (Aiea, HI, U.S.A.), W. P. Niemczura (Honolulu, HI, U.S.A.), and M. H. Litt (Cleveland, OH, U.S.A.)	237
Structure of the extracellular polysaccharide of <i>Acetobacter methanolicus</i> MB 58/4 (IMET 10945) H. D. Grimmecke, U. Mamat, M. Voges, W. Lauk (Leipzig, Germany), A. S. Shashkov, and Yu. A. Knirel (Moscow, U.S.S.R.)	247
<i>Book reviews</i>	c1
<i>Announcement</i>	c3
<i>Corrigendum</i>	c4
<i>Author index</i>	c5
<i>Subject index</i>	c7
<i>Contents (Vol. 218)</i>	c9

